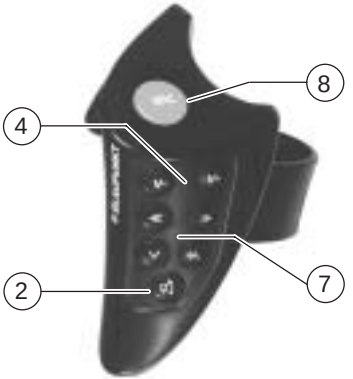
Radio / CD

Davos RDM 169
Hannover 2000 CD
St. Moritz RDM 169

Operating instructions

BLAUPUNKT

Bosch Gruppe



Fernbedienung RC 08 (Option)
Remote control RC 08 (optional)
Télécommande RC 08 (en option)
Telecomando RC 08 (optional)
Afstandsbediening RC 08 (Optie)
Fjärrkontroll RC 08 (Tillval)
Mando a distancia RC 08 (opcional)
Telecomando RC 08 (opção)

Display

The display consists of three fields and varies according to the operating mode and function.

Display field 1:

Radio mode
Memory banks and wavebands
Brief indication of preset station (e.g. P1)

CD mode
Current track

CD changer mode (optional)
Current track

Audio
Numeric and graphic representation of the volume and audio settings

DSC
Permanent display for DSC programming. Graphic representation of the volume level selected.

Display field 2:

Radio mode
Radio frequency or station name
PTY programme type Clock display

CD mode
CD time (elapsed playback time), CD name, CD number and brief indication of function switch, Clock display

CD changer mode (optional)
Current CD playing
CD time (elapsed time), CD name and brief indication of changes in function Clock display

DSC
Serves as display and input field during DSC programming Clock display

Miscellaneous
Indicates new source and the active functions (e.g. SCAN)

Display field 3:

Displays active functions

- Stereo
- CD inserted
LD - Loudness

Radio mode
AF - Alternative Frequency for RDS
PTY - RDS programme type
TA - Priority for traffic information
TP - Traffic programme station
lo - Seek tuning sensitivity

CD mode
RPT – Repeat function
MIX – Tracks played at random

CD changer mode optional
RPT - Repeat function
MIX - Tracks played at random

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“Davos RDM 169”

Features in common:

- RDS (FM/MW/LW) EON
- PTY (Station search according to program type)
- Codem D reception concept
- 30 station presets
- Clock (precision timing via RDS; switches automatically between standard and daylight savings time)
- Release panel (electronic detachable operating panel)
- 4-channel preamp out 3V
- 4 x 40 watts of maximum power output
- CD player
- **DMS** Disc Management System (CD changer connection possible)
- AUX (connection for auxiliary sound source)
- Infrared remote control unit (optional)
- Telephone mute (sound sources muted during telephone calls)
- Bass Logic (1-band equalizer) to adjust bass and mid-range frequencies
- Individual sound settings of each sound source (“Source Tone Memory”)

“Hannover 2000 CD / St. Moritz RDM 169” with multi-colour display in blue

+ Digital parametric equalizer (2-band) to adjust mid-range and high frequencies
+ “SHARX”: automatic intermediate frequency switching designed to reduce interference from adjacent radio stations
+ CD naming

ENGLISH

Quick reference

① **Detachable operating panel**
Press the “REL” button to release the detachable operating panel and remove it from the vehicle.
To re-attach the panel, set it into the guide on the right-hand side of the chassis. Gently press in the left side of the panel until it snaps into place.
Be sure not to press or apply any pressure directly on the display.

② **Switching the unit on/off**
With the operating panel in place and the ignition switched on, press the on/off button in the middle of the volume knob briefly or insert a CD into the unit. It will play at the preset volume.

Switching on/off with the ignition:
If the unit has been connected as described in the instructions, it can also be turned on and off with the vehicle ignition. The unit will switch on in the mode used last before it was switched off.

Switching on when the ignition is off:
It is possible to play the unit with the ignition turned off (as long as the operating panel is in place): Press the on/off button in the middle of the volume knob briefly to switch the unit on.
To prevent the battery from running down, the system will turn off automatically after approximately one hour of playback.

③ **Eject**
Press this button to eject the CD from the radio unit.

④ **Volume adjustment:**

When the unit is switched on, it will play at the preset volume. To adjust the volume, turn the volume control. Turn the volume control in a clockwise direction to raise the volume and in a counter-clockwise direction to lower the volume.
To lower the volume quickly, press the on/off button briefly. “Mute” will appear in the display and the volume will drop to the mute value set in the DSC menu.
Press the on/off button again or turn the volume control to cancel the “mute” function. The “mute” function and the preset volume can be altered, refer to “DSC programming”.

⑤ **CD insert**
After a CD is inserted with the label facing up, it will automatically be transported to its playing position. The unit will automatically switch to playback.

⑥ **Display**
The display indicates all settings, operating modes and functions.

⑦ **Rocker switch**

Radio mode

∧/∨	**Automatic seek tuning**
∧	Up
∨	Down
<< >>	**Manual seek tuning**
<</>>	Up/down in short intervals (for FM only if “AF” is off)

For FM only:

<</>> Scrolls through the broadcast networks, if AF is on. Example: NDR 1, 2, 4, N-Joy, ...

CD mode

∧/∨ **Select track:**
∧ Up
∨ Down,
If ∨ is pressed only once the unit will return to the beginning of the track currently playing.

>> **Fast forward**, audible (CUE)
Hold >> pressed down for as long as necessary.

<< **Fast reverse**, audible (REVIEW)
Hold << pressed down for as long as necessary.

Changer mode

∧/∨ **Select CD**
∧ Up
∨ Down

<< >> **Select track**
>> **Up**: press briefly
CUE - fast forward (audible): hold button down.
<< **Down:** press two or more times briefly
Repeat track: press once briefly.
REVIEW - fast reverse (audible) - hold button down.

Additional rocker switch functions:
For additional settings use
AUD (9)
DSC-Mode (8)
PTY (4)
Important: The corresponding function must be active.

(8) **SC-scan/SRC**
Radio mode

Press “SC” for approximately 2 seconds. You will hear a beep and “SCAN” will appear in the display, flashing alternately with the station name abbreviation of the station currently being scanned. All of the FM stations within reception range will be scanned.

PTY-Scan
PTY-Scan cannot be started unless “PTY” is switched on (“PTY” is lit up in the display).
Press “SC” for approximately 2 seconds. You will hear a beep and “PTY SCAN” will appear in the display, flashing alternately with the station name abbreviation of the station currently being scanned.
The stations broadcasting the program type selected will be scanned.
Stop the Scan/PTY-Scan function:
Press “SC” or the rocker switch briefly.

CD mode

Press “SC” for approximately 2 seconds. You will hear a beep and “SCAN” will appear in the display. The tracks on the CD will be scanned.
Stop the CD Scan function:
Press “SC”.

CD changer mode

Press “SC” briefly.
All of the CD tracks will be scanned briefly.
“SCAN” will appear in the display.
Stop CD-Scan: Press “SC” again.

⑨ **AUD**

Use this key to activate the menu for tone control.

Treble and bass adjustment

Press “AUD” once briefly: “BASS” will appear in the display and now you adjust this setting as desired by pressing the rocker switch to the left or the right. Use the up/down rocker switch keys to set the treble. “TREBLE” will then appear in the display.

Setting the Balance (left/right) and the Fader (front/rear):

Press “AUD” twice briefly.
Now use the up/down rocker switch to adjust the volume between the front and the rear speakers. “FADER” will appear in the display.
Use the left/right rocker switch keys to adjust the volume between the left and right speakers. “BALANCE” will appear in the display.
The selected values will appear in the display. The last setting is stored automatically.
Switch AUD off by pressing the button again briefly.
If you do not make any adjustments to the tone within 8 seconds, the AUD mode will quit automatically.

LD - Loudness

Loudness boosts the bass frequency at low volume.
Loudness on/off: Press AUD until you hear a beep.

⑩ **DSC (Direct Software Control)**

Using “DSC” you can adjust programmable basic settings to suit your own personal preferences.
Refer to the section on “DSC programming” for more information.

⑪ **Clock display**

When the unit is switched on press “DIS” briefly and the current time will appear in the display for approximately 8 seconds.
Additional function for clock display:
Press and hold “DIS” until you hear a beep to display the time permanently.
If you activate another function, the time will disappear from the display for approximately 8 seconds.

⑫ **Preset buttons 1 to 6**

Radio mode

You can store up to six stations in each memory bank (I, II, and “T”).
On MW and LW you can also store six stations each.

Storing stations

Tune the radio into the station you would like to store. Press the preset button on which you want to store this station (radio will switch to mute) and hold it down until the radio becomes audible again and you hear a beep.

Recalling stored stations

Select the waveband and, on FM the memory bank (“I”!, “II”, or “T”) as well. Then press the corresponding preset button 1-6 briefly to listen to the station stored there.

Additional function for the station preset buttons

Storing and recalling the PTY program type.
When PTY is active (“PTY” will appear in the display), then you can store and recall a program type (e.g. rock, pop, classical, news, etc.) on each for the station preset buttons for the FM waveband.

CD mode

3/⏯-Pause

Press the station preset button marked **3/⏯** to interrupt CD playback. “PAU-

SE" will appear in the display. Press button again to resume CD playback.

4/RPT - Repeat
Press the station preset button marked **4/RPT** to repeat the CD track currently playing.
"REPEAT-T" will appear briefly in the display. "RPT" will light up in display field 3.
The track title will repeat until **4/RPT** is pressed again or you press the rocker switch to select a different track.

5/MIX
Press the station preset button marked **5/MIX** to switch to MIX playback for the CD currently playing. The tracks on the CD will be played in random order.
The current setting is briefly indicated in the display: "MIX CD" will flash briefly in the display and "MIX" will appear in display field 3.
Press **5/MIX** again to switch this function off.

CD-Changer mode

3/⏯ - Pause
Press the station preset button marked **3/II** to interrupt CD playback. "PAUSE" will appear in the display. Press button again to resume CD playback.

4/RPT - Repeat
Press the station preset button marked **4/RPT** to repeat the CD track currently playing.
"REPEAT-T" will appear briefly in the display.
To activate the repeat function for the disc currently playing, hold down **4/RPT** until you hear a beep.
"REPEAT-D" will appear briefly in the display.
Press **4/RPT** again to end the repeat function.

5/MIX
Press the station preset button marked **5/MIX** to switch to MIX playback for the CD currently playing. The tracks on the CD will be played in random order.
The current setting is briefly indicated in the display: "MIX CD".
To activate the MIX function for all of the tracks on the CDs in the magazine, hold down **5/MIX** until you hear a beep. "MIX ALL" will appear briefly in the display.
Press **5/MIX** again to switch this function off.

(13) **BA/TS**
Switches between the wavebands/memory banks FM I, FM II, TS (Travelstore), MW and LW

Extra function: Travelstore
To store the six most powerful radio stations in the Travelstore bank:
Press **BA/TS** until a beep sounds or "T-STORE" appears in the display.

(14) **PTY**
(**P**rogramme **Ty**pe)
With "PTY" the station preset buttons become programme buttons. You can select a different programme type on each of the presets, e.g. news, sport, rock, pop, education, etc. Using the rocker switch <</>> it is possible to recall all of the PTY programme types, if PTY is activated. Press "PTY" briefly and "PTY" will light up in the display. Press "PTY" again to switch the function off.

(15) **AF•TA**
Alternative **F**requency in RDS mode:
Switch the AF function on/off:
Press the "AF" button for approximately 2 seconds. "AF" will appear in the display.

The radio will use RDS to automatically search for the best radio frequency offering the same programme.
To switch the “AF” function off press the “AF” button for approximately 2 seconds and “AF” will disappear in the display after the beep.

TP
“TP” will appear in the display if the radio station you are currently tuned into is a traffic information radio station.
TA
“TA” (**T**raffic **A**nnouncement = priority for traffic messages)
You can only tune into radio stations that broadcast traffic information.
TA on/off:
Press “AF.TA” briefly: “TA” will appear in the display, priority for traffic programmes activated.

Remote control operation

General information

SRC press briefly: switches audio sources

press briefly: mutes audio sources

V+ raises the volume
V- lowers the volume

Radio mode

∧ seek tuning up
∨ seek tuning down

>> next FM memory preset, up
<< press briefly: selects the waveband
hold pressed down: Travelstore

CD changer

∧ next CD
∨ previous CD

>> press briefly: next track
hold pressed down: CUE – fast forward

<< press briefly: previous track
hold pressed down: REVIEW – fast reverse

SRC hold pressed down: List function

Important notes

What you need to know

Before using your new car audio system, please read through the following information carefully.

Traffic safety

As the driver of a motor vehicle, it is your responsibility to pay attention to the traffic situation at all times. Never use your car audio system in a way that could distract you.

Please keep in mind that you travel a distance of 14 m per second at a speed of only 50 km/h.

Should the traffic situation become particularly demanding, we advise you not to use the audio system.

Always make sure that you are still able to hear any warning signals coming from outside the vehicle, such as police or fire engine sirens, so that you can react accordingly.

Consequently, you should always select a moderate volume for playing your car audio system while you are driving.

Installation

If you would like to install your new car stereo yourself or add other audio components to existing ones, then please read the enclosed instructions on installation and connection carefully.

In order to ensure that the unit operates properly the positive power supply line must be connected via the ignition and the permanent +12 V lead.

Do not ground the loudspeaker outputs! This will result in damage to the unit output stages.

Telephone mute

If you have installed a car telephone in your vehicle, it is possible to automatically mute the radio or CD playback when you use the telephone (telephone mute).

“PHONE” will then appear in the display.

Traffic announcements continue to have priority if you have activated TA. You can interrupt traffic messages by pressing **TA**.

Accessories (optional)

Use only Blaupunkt-approved accessories and spare parts. You can use the following Blaupunkt products with this audio system:

Additional amplifiers

All Blaupunkt amplifiers

CD changers

Blaupunkt CDC-A 08 and
Blaupunkt CDC-A 072

Remote control unit

Blaupunkt RC 08 infrared remote control unit.

The RC 08 infrared remote control unit allows you to conveniently operate the most important functions from the steering wheel.

Guarantee

The scope of the guarantee is determined by the laws in the country where the unit was purchased.
Regardless of the legal guarantee regulations, Blaupunkt affords a 12-month guarantee. Your cash register receipt is a valid guarantee coupon.
If you have any questions about the guarantee, please contact your dealer. He will be happy to assist you, repair your equipment or forward it to an authorised Blaupunkt repair shop. In addition, our employees are there to help you on our service hotline.
You will find the telephone and fax numbers on the last page of this manual.

International telephone information

Have you got any questions on the operation of this equipment or do you require more information?
Give us a call!
You will find the international telephone and fax numbers on the last page of this manual.

Theft protection system / Release panel

To best protect your car audio system from theft, this unit has been equipped with a detachable control panel.

Detaching the release panel

Press the **REL** button on the top left of the radio to release the control panel. Then remove the panel. You can remove the panel regardless of whether the unit is switched off or on.

Attaching the release panel

Slide the panel into the guide points on the right of the radio unit and then press the left side into the locking position gently until it snaps into place. Make sure that you do not press directly on the display.

The audio system will switch on in the operating mode last used before the panel was removed.

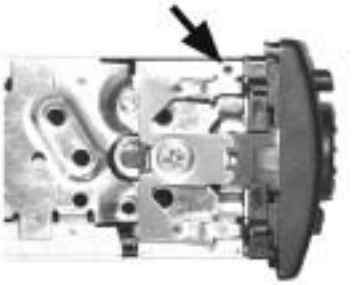
Care of the control panel

After you have removed the release panel, protect it from any form of rough handling. Make sure it does not come into contact with any type of fluids. Store it away from direct sunlight and other sources of heat. The connection contact strip which is visible on the rear side of the panel must be in perfect condition to ensure that the system is able to function properly.

It is highly advisable to store the control panel in the protective case provided.

Fixing the release panel

To prevent unauthorised persons from removing the release panel, e. g. from a car audio systems showroom, you can fix the release panel to the chassis permanently to lock it into place. Screw the enclosed bolt into the hole on the left hand side of the unit when the release panel is in place, see arrow.



Selecting the operating mode

Use the SRC (source) button to select between radio, CD and CD changer, if applicable.
The CD mode is not available unless a CD has been inserted.
The CD changer mode is not available unless a CD changer is connected and a CD magazine inserted. Otherwise, “No CD” will appear in the display.
Press **SRC** to switch between the operating modes.

Radio operation with RDS (**R**adio **D**ata **S**ystem)

The **R**adio **D**ata **S**ystem enhances your enjoyment when you listen to FM radio stations.
More and more radio stations now broadcast RDS information along with their regular programming.
As soon as radio programmes are identified, the station name including a regional identifier, if applicable, will appear in the display, for example, NDR1 NDS (regional programme in Lower Saxony, Germany). When RDS is activated, the preset buttons become programme buttons. You now know exactly which programme you have tuned into, making it easy to find the desired station quickly. But RDS also offers you further advantages:

AF - Alternative frequency

The “AF” function makes sure that the radio always tunes into the strongest frequency for the currently selected programme automatically.
Press the **AF•TA** button for approximately 2 seconds, until you hear a beep and “AF” appears in display field 3.
While searching for the strongest reception signal, the radio may switch to mute briefly.
If “SEARCH” appears in the display when the radio is switched on or one of the stored frequencies recalled, the unit is already automatically searching for an alternative frequency.
“SEARCH” will disappear from the display when the alternative frequency has been found or after the frequency band has run through completely.
If the reception quality of the programme selected deteriorates beyond a certain point, tune into another station.

REG - regional programme

Certain radio programmes are split up at times into regional programmes offering local information. The 1st programme broadcast by NDR, for example, offers programmes with different contents in the northern German states of Schleswig-Holstein, Hamburg and Lower Saxony at certain times of the day.
If you are listening to a particular regional programme and wish to continue doing so, select “REG ON” in the DSC mode.
If you leave the service area of the regional programme you are tuned into, or if you would like to take full advantage of RDS service, switch to “REG OFF” in the DSC mode.
The display will briefly indicate whether this function is switched on or off with “REG ON” or “OFF” when you switch on the “AF” function.

Selecting a waveband

The following wavebands are available:

UKW (FM)	87,5	- 108 MHz,
MW	531	- 1602 kHz and
LW	153	- 279 kHz

Press the “BA/TS” button to select the desired waveband.

Station tuning

Automatic seek tuning ∧/∨

- Press ∧/∨; the car radio will automatically search for the next station.

If you hold ∧/∨ pressed up or down on the rocker switch, seek tuning will speed up in the corresponding direction.

Automatic seek tuning

∧	Up
∨	Down
<</>>	Up/down in short intervals (on FM only if “AF” is switched off)

Manual tuning with << >>

You can also tune into a station manually.
Important: AF and PTY must be switched off (i.e. the symbols do not light up in the display).
If necessary, deactivate these function by pressing “AF.TA” or “PTY”.

Manual tuning:

- Press << >>; the frequency will change in short intervals in the corresponding direction.

If you hold << >> pressed to the left or the right on the rocker switch, the frequency scan will speed up.

Scrolling through the broadcast networks (FM only)

You can use the << >> buttons to tune into stations in your reception area.
If it is possible to receive several programmes in the same broadcast network, you can scroll through them in the forwards direction by pressing >>, or backwards using the << button, e.g. NDR 1, 2, 3, 4, N-JOY, ...
For this to work properly you must have already tuned into the stations at least once and “AF” must be active (lights up in the display).

To do this, you can start the Travelstore seek operation:

- Press “BA/TS” for 2 seconds; the system will start to run through the frequency band.

If “AF” is not lit up,

- Press “AF.TA” until you hear a beep.

It is now possible to select stations using << >>.

Switching between the memory banks (FM)

You can switch between the memory banks I, II and T in order to store stations and recall them later.

The currently selected memory bank will appear in the display.

- Press the “BA/TS” button as many times as necessary until the desired memory bank lights up in the display.

Storing stations

On FM, you can store six stations on the preset buttons 1 - 6 for each of the memory banks (I, II, T).
On MW/LW, you can also store six stations each.

- Select the appropriate waveband by pressing BA/TS.

- Tune into a station with the rocker switch (either automatically or manually).
- Press the desired preset button until the radio resumes play after the muting (takes approximately 2 seconds) or until you hear a beep.

Now the station has been stored.
The display will indicate which station has been stored.

Note:
If you attempt to store a station which is already stored, the corresponding station and the station preset will flash in the display if you are in a different memory bank.

Storing stations with the strongest reception automatically with Travelstore

You can automatically store the six FM stations with the most powerful signals in your current reception area sorted according to their signal strength. This function is particularly convenient on longer trips.

- Press the “BA/TS” button for 2 seconds.

“T-STORE” will appear in the display.
The six strongest FM stations will be automatically stored on the memory bank “T” (Travelstore). When this process has been completed, the name of the strongest station will appear in the display and begin to play.
If desired, stations can also be stored manually in the Travelstore bank, refer to the section on “Storing stations”.

Recalling stored stations

You can recall any stored station at the touch of a button.

- Select the waveband by pressing BA/TS. For FM, also choose the corresponding memory bank by pressing the BA/TS button as many times as necessary until the desired bank appears in the display.
- Press the corresponding preset button briefly to recall the station.

Scanning stations with Radio Scan

You can scan through all of the stations in your reception area.
To start the Scan function:

- Press “SC” for approximately 2 seconds.

The scanned frequency or the station name will start flashing in the display.
During the scanning process “FM-SCAN” or “AM-SCAN” will light up in the display.

If you want to continue listening to the station which is being scanned, then

- Press “SC” briefly.

This ends the Radio Scan function.
If no station is selected, the scan function will switch off after the frequency band has run through. The station selected previously will resume play.

Changing the scan time

The scan time per radio station can be set to between 5 and 20 seconds.
For more detailed information, refer to the section on “DSC programming - SCANTIME”.

Selecting the automatic tuning sensitivity

You can alter the automatic tuning sensitivity.
If “lo” is displayed, the radio will only pick up strong, local stations (low sensitivity).
If “lo” does not light up, the radio will also pick up weaker, more distant stations.
To switch the automatic tuning sensitivity and program the sensitivity level, refer to the section on “DSC programming “.

Switching between Stereo/Mono (FM)

You can switch between Stereo/Mono in the "DSC" menu. This can be an advantage when the station reception is poor. The car audio system will select stereo automatically when it is switched on.
When reception quality deteriorates, the system will switch to mono playback.
Refer to the section on Stereo/Mono in "DSC" programming for information on how to switch from stereo to mono.
The playback mode selected is indicated in the display.

PTY - Programme **Ty**pe

PTY is an RDS service offered by an increasing number of broadcasting stations. This feature allows you to select FM stations automatically according to their programme type. After you have chosen the PTY of your preference, the corresponding stations can be selected either by seek tuning or using the scan function.

Programme types

Switch "PTY" on by pressing the "PTY" button.
Use <</>> to have the last selected programme type displayed and to choose a new one.
You can select any one of the stored types with the preset buttons 1-6.
The following list indicates some of the programme types which are currently available.
POP
ROCK
WEATHER
CHILDREN
TRAVEL
HOBBIES
JAZZ
OLDIES
NEWS
SPORT
CULTURE
Refer to "DSC programming – PTY Lang" to find information on switching the language used to display the programme types between German and English.

Switching PTY ON/OFF

- Press "PTY".

When the function is active, the programme type selected last will briefly appear in the display and "PTY" will appear permanently.

Checking the programme type of the station

- Press "PTY" for approximately 2 seconds.

After the beep the display will show the programme type offered by the station currently playing. If "NONE" appears in the display, the current station has no PTY code.

Selecting a programme type

a) Using the preset buttons

When PTY is switched on, you can use the preset buttons 1-6 to select the programme types stored at the factory.

- Press one of the presets 1-6.

The selected programme type will be displayed for 2 seconds.

- If you would like to listen to a station with this PTY, press ∧/∨ to start the seek tuning function.

If the radio is unable to find a station offering the selected programme type, the display will show "NO PTY" and a beep will be emitted. The radio will select the station which was tuned into before seek tuning was activated.
You can assign different programme types to each preset position. Please refer to the next section on "Storing programme types".

b) Using the <</>> buttons on the rocker switch
When “PTY” is switched on, you can select a programme type using buttons <</>>.

- Press << or >>; the programme type selected last will be displayed for 3 seconds.
- During this period press >> (forwards) or << (backwards) to select the desired type.
- Press << or >> as many times as required.
- If you would like to listen to a station with the selected PTY, press ∧/∨ to start the seek tuning function.

If the radio is unable to find a station offering the selected programme type, the display will show “NO PTY” and a beep will be emitted. The radio will select the station which was tuned into before seek tuning was activated.

Storing programme types

Each of the preset buttons 1-6 has been assigned one programme type at the factory.
If desired, you can also replace these with other available programme types.
To do so, make sure that “PTY” lights up in the display.

- If necessary, press the “PTY” button to switch on the function.
- Select a programme type using buttons <</>> and hold down the desired preset button (1-6) until you hear a beep.

Now the selected programme type can be recalled by pressing this preset as long as “PTY” lights up in the display.

Scanning stations with PTY SCAN

Important: “PTY” must appear in the display.

- Press “SC”.

All of the stations in your current reception area offering the selected programme type will be scanned.
To switch off PTY-SCAN:

- Press “SC” or the rocker switch again.

PTY priority

Situation:
PTY is switched on and lights up in the display.
No station offering the selected programme type can be found currently in your reception range (with seek tuning or scan).
The set will switch back to the station previously tuned into.

As soon as it is possible to receive a programme in the broadcast network with the PTY selected, the radio will switch over to the corresponding station for the duration of the programme.
Example:

- Station playing: NDR3.
- “PTY” lights up in the display.
- Programme type “POP” selected.
- Seek tuning is started.
- No station with “PTY-POP” can be found.
- The display shows “NO PTY” and
- automatically switches back to NDR3.
- NDR2 airs a “PTY-POP” programme.
- The radio will switch to the linked stati on NDR2 for the duration of the “POP” programme.

During CD operation, the set will also switch to the radio programme if the selected PTY becomes available within the broadcast network.
After the PTY programme has ended the system will switch back to the previous mode (radio or CD).

Note:
As already mentioned, these functions are only supported by a limited number of RDS stations at the present time.

Traffic programme station reception with RDS-EON

The abbreviation “EON” stands for Enhanced Other Networks, which means that information is exchanged within a radio network.
Many FM radio stations provide their service area with traffic messages at regular intervals.
Along with their programmes, all traffic programme stations transmit a special carrier signal, which is decoded by your car radio. If this signal is identified, “TP” will appear in the display (**T**raffic **P**rogramme).
In addition to these, there are also stations which do not actually transmit traffic information themselves, but by using RDS-EON it is possible for them to forward the traffic messages broadcast by another traffic programme station in the same radio network.
If you want to have the priority for traffic announcements activated while listening to one of these stations (e.g. NDR3), “TA” must appear on the display panel.
If a traffic announcement is broadcast, the radio will automatically switch to the linked traffic programme station (in this case, NDR2) for the duration of the message and return to the original programme (NDR3) afterwards.

Traffic announcement priority on/off

If the priority for traffic announcement programmes is activated, “TA” will light up in the display.
To switch the priority on or off:

- Press the “AF.TA” button.

If you press “AF.TA” while a message is being broadcast, this message only will be interrupted. The unit will then switch back to the previous mode. The priority for other traffic messages remains active.
Please note that several buttons have no function while a traffic announcement is broadcast.

Warning beep

If you leave the reception area of the traffic programme station currently tuned into, you will hear a warning beep after approximately 30 seconds.
This warning will also be emitted if you press a preset button for a station which does not send the traffic programme signal (TP).

Switching the warning beep off

a) Tune into another station offering traffic information:

- Press the rocker switch or
- press a preset button which has a traffic programme station allocated to it.

or

b) Switch off the priority for traffic announcements:

- Press “TA”.

  “TA” will disappear from the display.

Automatic seek tuning start (CD mode)

If you leave the reception area for the traffic programme station you have tuned into while you are listening to a CD, the system will automatically start searching for a new traffic programme.
If no such station is found within approximately 30 seconds, a warning beep will sound every 30 seconds. To switch the warning beep off, proceed as described above.

Adjusting the volume for traffic announcements and the warning beep

Although this volume was preset at the factory, you can use the DSC function to alter the setting (see “DSC programming - TA VOL”).

CD operation

This car audio system is also equipped with a CD player.
Note:
Use only perfectly circular CDs with a diameter of 12 cm.
CDs with a diameter of 8 cm or CDs manufactured in the shape of a butterfly or a beer mug, for example, are not suitable for use with this equipment.
Using such CDs can very likely result in the destruction of the CD and the CD drive.
We assume no responsibility for damages caused by using unsuitable CDs.

Switching on the CD mode

CD is inserted, “CD” lights up in the display.
Press “SCR” to switch the audio source:

- Press “SRC” as often as necessary until the CD functions appear in the display (track number and elapsed playing time).

Inserting a CD

- Switch the car audio system on.
- Insert a CD (label facing up) gently into the CD slot.

The CD will be automatically transported to its playing position. CD playback will begin.

Removing a CD

- Press the “Eject” button briefly.

The CD will eject.
Do not interfere with the automatic CD insert/eject function in any way as this might damage the mechanism.
If you do not remove the CD, it will be pulled back into the unit after approximately 30 seconds.

Selecting a track

After you insert a CD, the CD functions will appear in the display.

∧/∨ **Select track:**
∧ Up
∨ Down
If ∨ is pressed only once the unit will return to the beginning of the track currently playing.

>> **Fast** forward, audible (CUE)
Hold >> pressed down for as long as necessary.

<< **Fast** reverse, audible (REVIEW)
Hold << pressed down for as long as necessary.

The rocker switch acts as a successive switch, i.e. press it repeatedly to skip over several tracks.
The number of the track currently selected will appear beside “T” in the display.

CD-MIX operation

You can play back the tracks on the CD in random order. Press “5/MIX” on the station preset buttons briefly to switch the function on and off. “MIX” is switched on when “MIX CD” appears briefly in the display when you switch audio sources and each time the CD track changes.

CD-PAUSE

Press the station preset button marked **3/⏯** to interrupt CD playback. “CD-PAUSE” will appear in the display.
Press this button again to cancel the pause function. The CD programme will continue on from where it left off.

ENGLISH

CD changer operation

CD-Repeat (RPT)

Press the station preset button marked “4” during CD playback to repeat the track currently playing.
“REPEAT” will appear briefly in the display and the track will repeat until you press station button 4/RPT again or press the rocker switch to select a different track.

CD-Scan

You can scan the tracks on a CD.
To start the SCAN function:

- Press “SC” for approximately 2 seconds. “CD-SCAN” will appear in the display.

The tracks will be scanned briefly one after the other in ascending order.

To end the SCAN function:

- Press “SC” for approximately 2 seconds.

The track scanned last will begin to play.

The CD changer is equipped with a magazine for 10 discs.
Note:
Use only perfectly circular CDs with a diameter of 12 cm.
CDs with a diameter of 8 cm or CDs manufactured in the shape of a butterfly or a beer mug, for example, are not suitable for use with this equipment.
Using such CDs can very likely result in the destruction of the CD and the CD drive.
We assume no responsibility for damages caused by using unsuitable CDs.
After you have inserted the magazine, keep the door closed to prevent the magazine from becoming dusty or dirty.

Inserting CDs

Insert one or several CDs into the magazine (label facing up).
Slide the magazine into the CD changer in the direction of the arrow.
The CDs are counted from bottom to top.

Removing CDs

Open the door of the CD changer and press the eject button.

CD playback

Press “SRC” to select the CD changer.

- Press “SRC” repeatedly until “CHANGER” appears in the display.

CD playback starts with the first CD identified by the changer.

Selecting a track

When CD playback starts, all active CD functions and the CD identification (e.g. number, name or elapsed playing time) will light up in the display.
The name or number of the CD currently playing will appear in the display.

>> **Fast forward,** audible (CUE).
<< **Fast reverse,** audible (REVIEW).

Press the button repeatedly to skip several tracks.
The number of the selected track will appear beside “T” (track).

RPT

CD tracks can be played repeatedly.
The following options are available:
Repeat the current track (“REPEAT-T”) or Repeat the CD, i.e. all tracks on the current disc (“REPEAT-D”).
“RPT” will appear in display field 3 as long as RPT is active. “REPEAT-T” or “REPEAT-D” will light up briefly in display field 2 when you activate this function and each time the track changes.

Switch REPEAT-T on:

- Press **“4/RPT” briefly**.

Switch REPEAT-D on:

- Hold **“4/RPT”** down **for longer**.

To switch “RPT” off again: press **“4/RPT”** briefly.

MIX

You can have the CD tracks played back in random order.
The following options are available:
Mix all tracks of one CD (“MIX-CD”) or Mix all tracks of all CDs (“MIX-ALL”).
“MIX” will appear in display field 3 as long as the MIX function is active.
“MIX-CD” or “MIX-ALL” will light up briefly in display field 2 when you activate this function and each time the track changes.

Switch MIX-CD on:

- Press **“5/MIX” briefly**.

Switch MIX-ALL on:

- Hold **“5/MIX” down for longer**.

To switch “MIX” off again: press **“5/MIX”** briefly.

CD-PAUSE

Press the station preset button marked **3/⏯** to interrupt CD playback. “CD-PAUSE” will appear in the display.
Press **3/⏯** again to cancel the pause function. The CD programme will continue on from where it left off.

CD-Scan

You can scan all of the CD tracks.
To start the SCAN function:

- Press “SC” for approximately 2 seconds. “ SCAN” will appear in the display.

All of the tracks on the CDs inserted in the magazine will be scanned briefly one after the other in ascending order.
To end the SCAN function:

- Press “SC” for approximately 2 seconds.

The track scanned last will begin to play.

Selecting the display mode

During CD playback you can select the display mode:

“DISC NO” - displays the number of the CD currently playing.

“NAME” - displays the name of the CD currently playing, e.g. “Madonna” (Hannover 2000 CD / St. Moritz RDM 169 only).

“TIME” - displays the elapsed playing time of a track, e.g. “2:32”, in minutes.

CD naming

To switch the display mode:
You can switch the display mode in the “DSC” menu (see DSC programming – CD DISP).
“TIME” is the factory default setting.
The display mode will appear briefly, followed by the corresponding value, e.g. “TIME”, “2:32”.
If you have selected “NAME” and you have not named the CD playing, the “TIME” display will appear for this CD.
Also read the section on “CD naming”.

Note: The following functions apply to the “Hannover 2000 CD / St. Moritz RDM 169” only.
You can enter individual names for CDs. This name (e.g. MADONNA) will then appear in the display if you have selected “CD NAME” in the “DSC” menu.
You can enter up to 30 CD names for the integrated CD player. When you insert the CD, the player will recognise it and display the name if you have selected this display mode in the “DSC” menu.
You can enter up to 99 CD names for the CD changer. When the CD changer selects the CD, it will recognise it and display the name if you have selected this display mode in the “DSC” menu.

Start entering CD names

Press “SRC” to select either the CD player or the CD changer, insert a CD if necessary.

- Press “DSC” and ∧/∨ as often as necessary until “CD/CDC NAME” appears in the display.
- Press << >> to switch to “CD naming”.

A CD name or number will appear.

- Press ∧/∨ to select the desired CD.
- Press << >> to switch to “CD EDIT MODE”.

If the CD has not yet been named, eight dashes will appear in the display. The first dash will flash.

- Press << or >> and select a letter, number or blank space.

Select “_” to enter a blank space.

- Press << or >> to select the next character.
- Press “DSC” to save the name.

The display will return to the “CDC NAME” mode.

- Repeat this process to name another CD.
- To quit the mode, press “DSC”.

Altering CD names

If you want to alter a name which has already been entered, proceed as described in the section on “Start entering CD names”.

Deleting CD names

You can delete individual CD names, the names for the CD magazine or the complete list of names for the CD player or the CD changer.

Deleting one CD name

- Activate the “CD NAMING MODE”.

- Select the CD whose name you want to delete.
- Activate the “CD NAME EDIT” mode.
- Press “DSC” and hold it down.

After 2 seconds (and after 8 and 12 seconds as well) you will hear a beep. After 2 seconds “one name” will be deleted. If you want to delete one name only, then press DSC for at least 2 seconds but release it again before 8 seconds have elapsed.
“DELETED” will appear in the display after the name has been deleted.
The “CDC NAME” mode will appear again in the display.

Deleting all CD names in a CD magazine

- Activate the “CD NAMING MODE”.
- Activate the “CD NAME EDIT” mode.
- Press “DSC” and hold it down.

You will hear a beep after 2, 8 and 12 seconds. The names in the magazine will be deleted after 8 seconds. Hold the button pressed down for at least 8 seconds but release it before 12 seconds have elapsed.
“DELETED” will appear in the display after the names have been deleted.
The “CDC NAME” mode will appear again in the display.

Deleting the entire list of names stored in the CD changer

- Activate the “CD NAMING MODE”.
- Activate the “CD NAME EDIT” mode.
- Press “DSC” and hold it down.

You will hear a beep after 2, 8 and 12 seconds. The list of names stored in the CD changer will be deleted after 12 seconds. Hold the button pressed down for at least 12 seconds.
“DELETED” will appear in the display after the list of names has been deleted.
The “CDC NAME” mode will appear again in the display.

Deleting the entire list of names stored in the integral CD player

Proceed as described above, except that the list of names stored in the CD player will already be deleted after you press and hold down “DSC” for 8 seconds.

Clock

This car audio system is equipped within a built-in clock which automatically takes advantage of RDS to ensure highly accurate time-keeping (hours, minutes).
For the clock to function properly with RDS, an RDS station with the CT function (CT – clock time) must be within reception range.
The automatic correction of the hours can be switched off. Please be advised that not all RDS radio stations currently transmit a time signal (CT – Clock time).

Setting the clock

a) automatically

The clock is set automatically when the radio is tuned into an RDS station which has the “CT” function (clock time).

b) manually with DSC-CLOCKSET

- Press DSC briefly, the menu will appear in the display. Press ∧/∨ as often as necessary until “CLOCK SET” appears in the display.
- Press << >> to set the hours/minutes. You can move to a different position by pressing ∧/∨.
- After you have set the clock, press “DSC” briefly to store the new setting.

Displaying the clock

You can set the clock to permanent display in both the radio and CD modes.
If another function is selected, the clock display will disappear for approximately 8 seconds and the station selected, for example, will appear in the display.
To switch the display mode:

- Press “DIS” for approximately 2 seconds until you hear a beep.

Correcting the time after the power has been disconnected

If the radio has been disconnected from its power source for any length of time, “0:00” will appear in the display when it is re-connected.
The time will be set automatically by RDS-CT, but can also be adjusted manually if desired.
You need only set the time manually if it is not possible to receive an RDS station with CT (clock time).

Deactivating the hour correction function

In the DSC menu it is possible to switch off the hour correction function with “CLK MAN/CLK AUTO”. An automatic correction for minutes will continue to take place.
This is useful if you would like to display the time for a different time zone, for example.

If necessary,

- Press “DSC” briefly and ∧/∨ as often as required until “CLK MAN/CLK AUTO” appears in the display.
- To deactivate the hour correction function press <</>> to select “CLK MAN”.
- Press <</>> to set the hours/minutes.

Setting the equalizer

The acoustic characteristics of the car interior affect the quality of the sound reproduced in your vehicle to a much greater extent than the speakers.

Position, installation and the rear volumes of, for example, the door or rear window shelf all play an important role.

Even the sound produced by well selected and installed speakers can be affected negatively by the resonance in the vehicle interior.

As a result, the bass sounds may be lost or reverberate, the mid-range tones sound too overpowering and music instruments or voices may be distorted or the total sound quality may be completely lifeless.

The overall sound quality can be greatly enhanced if certain frequencies are suppressed or boosted.

This car audio system is equipped with one (Davos RDM 169) or two (Hannover 2000 CD / St. Moritz RDM 169) parametric filters. The first filter “LOW EQ” can be set from 32 to 500 Hz, the second filter “HIGH EQ” from 630 to 10,000 Hz. In this context, parametric means that it is possible to set the frequency and either boost or reduce it (+10 to –20 dB) individually for each of these filters.

These parametric filters can be adjusted to very exact settings even without the help of measuring instruments.

The individual steps you have to take to make these settings are described in the following table.

Notes on making the settings

The following notes are intended as recommendations only. They do not necessarily reflect your own personal sound preferences.

We recommend that you use a music CD you are familiar with to make the settings. The CD should include tracks with different instruments and vocals. Purely electronic music is not well suited to serve as a basis for making the settings because the original sounds cannot be determined.

Before you set the equalizer, set bass, treble, balance and fader to “0” and switch the Loudness function off, if necessary.

This setting is described in the Quick Reference under AUD.

Now listen to the CD you have selected.

Evaluate the sound according to your own personal preferences.

Now refer to “Sound impression/problem” in the table and you will find suggestions to eliminate any problems under “What to do”.

Make the settings for bass and the lower mid-range tones with the LOW EQ filter, select HIGH EQ for treble and mid-range tones (Hannover 2000 CD / St. Moritz RDM 169).

The “HIGH EQ” and “LOW EQ” filters can be set in the “DSC” menu:

- Press “DSC”. Press ∧/∨ as often as necessary until “HIGH EQ” or “LOW EQ” appears in the display.
- Press << or >> once and set the level in the following table by pressing ∧/∨.
- Press << >> to switch the frequency range.
- Press “DSC” to store your settings.

You can switch the equalizer on and off in the “DSC” menu using the “EQ ON” or “EQ OFF” option.

Now you can compare the sound produced by your car stereo with or without the equalizer.

Assistance in setting your equalizer

Start to make your settings in the mid-range/treble and end it with the bass range.

Frequency range	Sound impression/problem	What to do	Notes
Bass 30 - 100 Hz	Bass reproduction too weak	Boost the basses with the “LOW EQ” filter Frequency: 50 to 100 Hz Level: +4 to +6 dB	Avoid distortion. Boost the level carefully if the speaker diameter is too small
Lower mid-range 100 - 400 Hz	Unclear bass Playback reverberates Unpleasant pressure on the ears	Reduce the lower mid-range with the “LOW EQ” filter Frequency: 125 to 400 Hz Level: approximately –4 dB	The tone may become too lean and aggressive. Pay attention to the underlying tone of the music.
Mid-range sound 400 - 4.000 Hz	Sound appears to be in the foreground, very aggressive, no stereo effect	Reduce the mid-range with “HIGH EQ” filter Frequency: 1000 to 2500 Hz Level: -4 to –6 dB	Playback should not be too quiet. Tone too powerless
Treble 4.000 - 20.000 Hz	Lifeless reproduction Lack of transparency Instruments do not sparkle	Boost treble range with “HIGH EQ” filter Frequency: approximately 10 kHz Level: +2 to +4 dB	Avoid a piercing type of tone Strong hissing sound unpleasant

DSC programming

The car radio has been equipped with DSC (**D**irect **S**oftware **C**ontrol) to allow you to customise certain programmable, basic settings to suit your personal needs and preferences and then store them.
The basic settings for this audio equipment were made at the factory.
In the following you can find an overview of these settings, so that you can always reset to them if desired.
If you wish to alter any of the programming,

- press “DSC”.

Use the rocker switch to select and set the functions you wish to change. The display will show you the setting you have selected.
Press ∧/∨ to select the function.
Press << />> on the rocker switch to change or recall the values.
Note:
Whether the settings listed in the following are available or not depends on the car audio system model and the features with which it is equipped.
If you cannot select any of the functions listed here, then your car audio system is not equipped with that feature and it cannot be adjusted as a result (also see the section on “Equipment features list”).

AM ON/OFF It is possible to block out one or both of the AM wavebands (MW/LW).
This means you will select only the wavebands you want when you press “BA/TS”:
AM ON - all wavebands are available
MW OFF - LW, FM only
LW OFF - MW, FM only
AM OFF - FM only

AUX IN If another signal source is connected to the CD changer input, you must switch AUX to ON. Press “SRC” to select the “AUX” function. “AUX” will appear in the display.

BEEP Acknowledgement tone for all functions which require a button to be pressed for more than one second.
The volume can be adjusted from between 0 to 9. (0 = off)

CLOCKSET Sets the clock manually.
Refer to the section on “Clock”.

CLK. MAN. Switches off hour correction function.
Read the information in the section on “Clock “.

CLK. AUTO Automatic hour correction using the RDS/CT signal.
Refer to the section on “Clock”.

CLK. 12/24 Switches between 12-h and 24-h clock display.

CD DISP. To select the NAME or TIME display mode.
Refer to the section on “Selecting the display mode “.

CDC DISP To select the NAME, TIME or CD number for the CD changer.

CD NAME Appears only during CD playback.
Use this function to give your CDs individual names.
Refer to the section on “CD naming”.

DISP. ON/OFF. Here you can set the clock to permanent display when the audio system is switched off. The clock display will remain visible until the ignition is switched off.

EQ ON/OFF Switches the equalizer functions on and off.

HIGH EQ Equalizer setting:
To activate the frequencies and set the level for the upper frequency range.
Refer to the section on “Equalizer setting”.

HICUT Reduces interference under poor reception conditions by cutting the treble.
Select “NO HI-CUT” or “HI-CUT 1, 2 or 3”.
3 = cuts the treble the most.

LO-DX Adjusts seek tuning sensitivity.
“LO” stands for local reception.
“DX” stands for distant reception.
Select “LO 3” if you want to receive strong stations in the local area, select “DX 1” if you want to tune into weaker stations which are further away.

LOW EQ Equalizer setting:
To activate the frequencies and set the level for the lower frequency range.
Refer to the section on “Equalizer setting”.

LOUDNESS Loudness boosts the bass frequencies at low volume.
LOUD 1 - Low boost
LOUD 6 - Max. boost

MUTE It is possible to lower the audio volume quickly at the touch of a button. Here you can program the volume to which the audio will drop.

PEAK PEAK ON: Displays the dynamics of the music signal.
PEAK OFF: Permanent display for the volume

PTY LANG Allows you to select between German and English for the display of the programme types.

REG To listen to a regional radio programme outside of its RDS transmission range, switch on “REG ON”.
For full RDS service, switch to “REG OFF”.

SCANTIME Use this function to set the scan time for the radio or CD player from 5 to 20 seconds.

SHARX Activates automatic intermediate frequency bandwidth switching for FM.
In areas where there is a large number of radio stations on the air, switch to “SHARX ON” to reduce interference from adjacent radio stations.

STEREO/ MONO Switches between stereo and mono manually. The mode selected will appear briefly in the display. The car audio system will select “STEREO” playback automatically each time it is switched on.

TA. VOL Adjusts the volume for traffic announcements and the warning beep.
The message will be heard at this volume, if the standard volume is lower.
If the standard volume is set higher than the TA VOL level, then the traffic report will be played at the standard volume.

ON VOL Sets the turn-on volume. If set to “VOL 0”, the unit will automatically play at the volume last selected before it was switched off.

Press “DSC” to save any changes made in the settings and to quit the “DSC” menu.

Overview of the DSC factory settings

AM ON/OFF	ON
AUX IN	OFF
BEEP	4
CLK MAN/AUTO	AUTO
CLK 12/24	24
CD DISP	Time
CDC DISP	TIME
DISP ON/OFF	OFF
EQ. ON/OFF	OFF
HICUT	2
HIGH EQ	630 Hz / 0 db
LO-DX	SENS DX 1
LOW EQ	32 Hz / 0 db
LOUDNESS	3
MUTE LEVEL	15
PEAK ON/OFF	ON
PTY LANG	English
REG. ON/OFF	OFF
SCANTIME	10
SHARX	ON
STEREO/MONO	Stereo
TA. VOL	30
T. ON VOL	0

Specifications

Amplifier

Output power:	4 x 25 W RMS power acc. to DIN 45324 at 14.4 V 4 x 40 W max. power

Tuner

Wavebands:	
FM	87,5 - 108 MHz
MW	531 - 1602 kHz
LW	153 - 279 kHz

FM frequency response:
20 - 16.000 Hz

CD

Frequency response: 20 - 20.000 Hz

CD Changer

Frequency response: 20 - 20.000 Hz

Subject to modification!

Service-Nummern / Service numbers / Numéros du service après-vente / Numeri del servizio di assistenza / Servicenummers / Telefonnummer för service / Números de servicio / Número de serviço

	Tel.:	Fax:
Deutschland	018 050 002 25	051 214 940 02
Belgique	025 255 444	025 255 448
France	014 010 70 07	014 010 73 20
Nederland	023 565 63 48	023 565 63 31
Great Britain	018 958 383 66	018 958 383 94
Denmark	44 89 83 60	44 89 86 44
Sverige	08 750 15 00	08 750 18 10
Norway	66 81 70 00	66 81 71 57
Suomi	094 359 91	094 359 92 36
Österreich	045 989 90 28	016 103 93 91
Greece	015 762 241	015 769 473
Česká republika	026 130 04 41	026 130 05 14
USA	800-266 25 28	708-681 71 88
Singapore	006 535 054 47	006 535 053 12
Slovensko	042 175 873 212	042 175 873 229

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